

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FW

David B. Krig et al.

Title

SYSTEM AND METHOD FOR MONITORING OR REPORTING BATTERY STATUS OF

IMPLANTABLE MEDICAL DEVICE

Docket No.:

279.684US1

Serial No.: 10/706,856

Filed:

November 12, 2003

Due Date: N/A

Examiner:

Unknown

Group Art Unit: 3762

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

 \underline{X} A return postcard.

X A Communication Concerning Related Applications (2 pgs.).

X An Information Disclosure Statement (2 pgs.), Form 1449 (3 pgs.), and copies of 14 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

Atty: Suneel Arora Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this and day of October, 2004.

Name

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

N 10/706,856 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

plicant:

David B. Krig et al.

Examiner: Unknown

rial No.:

10/706,856

Group Art Unit: 3762

Filed:

November 12, 2003

Docket: 279.684US1

Title:

SYSTEM AND METHOD FOR MONITORING OR REPORTING BATTERY

STATUS OF IMPLANTABLE MEDICAL DEVICE

COMMUNICATION CONCERNING RELATED APPLICATIONS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related applications in the above-identified patent application:

Serial/Patent No.	Filing Date	Attorney Docket	<u>Title</u>
09/829825 6584355	April 10, 2001	279.305US1	SYSTEM AND METHOD FOR MEASURING BATTERY CURRENT
10/692315	October 23, 2003	279.474US1	BATTERY CHARGE INDICATOR SUCH AS FOR AN IMPLANTABLE MEDICAL DEVICE
10/395983 2003/0176897 A1	March 25, 2003	279.305US2	SYSTEM AND METHOD FOR MEASURING BATTERY CURRENT

COMMUNICATION CONCERNING RELATED APPLICATIONS

Serial Number: 10/706,856

Filing Date: November 12, 2003

Title: SYSTEM AND METHOD FOR MONITORING OR REPORTING BATTERY STATUS OF IMPLANTABLE MEDICAL DEVICE

10/618095

July 11, 2003

279.645US1

INDICATOR OF REMAINING ENERGY

Page 2 Dkt: 279.684US1

IN STORAGE CELL OF

IMPLANTABLE MEDICAL DEVICE

Respectfully submitted,

DAVID B. KRIG ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

P.O. Box 2938

Minneapolis, MN 55402

(612) 373-6951

Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this **BTH** day of October, 2004.

10/706,856

OCT 1 3 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

licant:

David B. Krig et al.

Examiner:

Unknown

Serial No.:

10/706,856

Group Art Unit:

3762

Filed:

November 12, 2003

Docket:

279.684US1

Title:

SYSTEM AND METHOD FOR MONITORING OR REPORTING BATTERY

STATUS OF IMPLANTABLE MEDICAL DEVICE

INFORMATION DISCLOSURE STATEMENT

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Dkt: 279.684US1

Filing Date: November 12, 2003

Title: SYSTEM AND METHOD FOR MONITORING OR REPORTING BATTERY STATUS OF IMPLANTABLE MEDICAL DEVICE

Thus, Applicant believes that the U.S. Patent & Trademark Office has waived the requirement under 37 C.F.R. 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication. The waiver is provided in a pre-OG notice from the U.S. Patent & Trademark Office entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" and dated July 11, 2003. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

DAVID B. KRIG ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

P.O. Box 2938

Minneapolis, MN 55402

(612) 373-6951

Date Oct. 8, 2004

,y ___

Suneel Arora Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this day of October, 2004.

Name

nature

PTO/SB/08A(10-01)
Approved for use through 10/31/202. OMB 651-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE 10/706,856 STATEMENT BY APPLICANT **Application Number** November 12, 2003 (Use as many sheets as necessary) **Filing Date** Krig, David **First Named Inventor** 3762 OCT 1 3 2004 **Group Art Unit** Unknown **Examiner Name** Attorney Docket No: 279.684US1 Sheet 1 of 3

	US PATENT DOCUMENTS						
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate	
	US- 2003/006,5366 A1	04/03/2003	Merritt, D. R., et al.	607	27	10/02/2001	
	US- 2003/0176897 A1	09/18/2003	Stessman, n. J.	607	27	03/25/2003	
	US- 2004/0039424 A1	02/26/2004	Merritt, D. R., et al.	607	29	08/28/2003	
	US- 2004/0162592 A1	08/19/2004	Betzold, R. A., et al.	607	27	02/15/2003	
	US-4,259,639	03/31/1981	Renirie, Alexix C.	324	430	11/03/1978	
	US-4,276,883	07/07/1981	McDonald, R. S., et al.	128	419PT	11/05/1979	
	US-4,290,429	09/22/1981	Blaser, Reinhard	128	419PT	03/31/1980	
	US-4,323,075	04/06/1982	Langer, A. A.	128	419	07/02/1979	
	US-4,488,555	12/18/1984	Imran,	128	419 PT	12/13/1982	
	US-4,548,209	10/22/1985	Wielders, P.g. E., et al.	128	419	02/06/1984	
	US-4,556,061	12/03/1985	Barreras, , et al.	128	419 PT	03/12/1985	
	US-4,606,350	08/19/1986	Frost, John G.	128	419PG	11/28/1984	
	US-4,659,994	04/21/1987	Poljak, Mark D.	324	426	08/12/1985	
	US-4,709,202	11/24/1987	Koenck, Steven E., et al.	320	43	06/19/1986	
	US-4,712,179	12/08/1987	Heimer, M. L.	364	417	02/05/1987	
	US-4,952,864	08/28/1990	Pless, B., et al.	323	299	06/01/1989	
	US-5,137,020	08/11/1992	Wayne, , et al.	128	419 PS	11/29/1990	
	US-5,344,431	09/06/1994	Merritt, D.R., et al.	607	29	09/14/1992	
	US-5,369,364	11/29/1994	Renirie, , et al.	324	430	04/26/1993	
	US-5,370,668	12/06/1994	Shelton, M.B., et al.	607	29	06/22/1993	
	US-5,391,193	02/21/1995	Thompson, David L.	607	29	02/05/1993	
	US-5,402,070	03/28/1995	Shelton, Michael B., et al.	324	433	07/15/1994	
	US-5,458,624	10/17/1995	Renirie, W. C., et al.	607	29	10/06/1993	
	US-5,483,165	01/09/1996	Cameron, Daivd B., et al.	324	427	01/14/1994	

EXAMINER DATE CONSIDERED

PTO/SB/08A(10-01)
Approved for use through 10/31/2002. OMB 651-0031
US Palent & Trademark Office. U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE 10/706,856 **Application Number** STATEMENT BY APPLICANT November 12, 2003 (Use as many sheets as necessary) **Filing Date** Krig, David **First Named Inventor** 3762 **Group Art Unit Examiner Name** Unknown Attorney Docket No: 279.684US1 Sheet 2 of 3

US-5,496,35	3 03/05/1996	Grandjean, Piercee A., et al.	607	29	09/23/1993
US-5,527,630	0 06/18/1996	Nagata, Toshio , et al.	429	7	03/23/1994
US-5,540,724	4 07/30/1996	Cox, T. J.	607	8	02/03/1995
US-5,562,59	5 10/08/1996	Neisz, Johann J.	600	16	08/17/1995
US-5,591,213	3 01/07/1997	Morgan, Carlton B.	607	5	09/21/1995
US-5,675,25	8 10/07/1997	Kadouchi, Eiji , et al.	324	433	11/06/1995
US-5,690,68	5 11/25/1997	Kroll, , et al.	607	5	10/27/1997
US-5,700,28	0 12/23/1997	Silvian,	607	5	05/03/1996
US-5,713,93	6 02/03/1998	Staub, Roland	607	29	01/23/1996
US-5,721,48	2 02/24/1998	Benvegar, Carl E., et al.	320	43	01/16/1996
US-5,741,30°	7 04/21/1998	Kroll, Mark W.	607	5	01/21/1997
US-5,769,87	3 06/23/1998	Zadech,	607	29	10/15/1996
US-5,800,47	2 09/01/1998	Mann, B.M.	607	29	02/19/1997
US-5,836,97	3 11/17/1998	Kroll, M. W.	607	5	11/12/1996
US-5,869,97	0 02/09/1999	Palm, W. A., et al.	324	433	10/31/1995
US-5,896,42	3 04/20/1999	Okamoto, Naoki	375	345	01/15/1997
US-5,897,57	6 04/27/1999	Olson, Kenneth F., et al.	607	5	04/08/1998
US-5,904,70	5 05/01/1999	Kroll, , et al.	607	5	
US-5,929,60	1 07/27/1999	Kaib, Thomas E., et al.	320	113	12/22/1997
US-5,959,37	1 09/28/1999	Dooley, M. W., et al.	307	130	11/12/1998
US-6,016,48	8 01/18/2000	Bosworth, Adam , et al.	707	4	11/04/1998
US-6,018,22	7 01/25/2000	Kumar, Y., et al.	320	106	06/22/1998
US-6,045,94	1 04/04/2000	Milewits, Marvin	429	91	07/08/1997
US-6,108,579	9 08/22/2000	Snell, J., et al.	607	29	04/11/1997
US-6,114,83	8 09/05/2000	Brink, Gregory D., et al.	320	136	12/02/1998
US-6,148,23	5 11/14/2000	Kuiper,	607	29	07/17/1998
US-6,154,67	5 11/28/2000	Juran, C. J., et al.	607	29	10/27/1998
US-6,167,30		Lyden, M. J.	607	29	09/15/1997
US-6,169,38	7 01/02/2001	Kaib, Thomas E.	320	132	07/26/1999
US-6,185,46	1 02/06/2001	Er, Slew B.	607	27	07/01/1998
US-6,198,25	3 03/06/2001	Kurle, Wayne D., et al.	320	132	12/23/1999
US-6,274,26	5 08/14/2001	Kraska, R. E., et al.	429	90	07/21/1999
US-6,313,60	9 11/06/2001	Brink, Gregory D.	320	132	10/19/2000
US-6,366,80	9 04/02/2002	Olson, Kenneth F., et al.	607	5	04/08/1998
US-6,400,98	8 06/04/2002	Gurewitsch, R.	607	29	02/18/2000

EXAMINER DATE CONSIDERED

Substitute for form 1449A/PTO	Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	10/706,856		
	Filing Date	November 12, 2003		
	First Named Inventor	Krig, David		
	Group Art Unit	3762		
	Examiner Name	Unknown		
Sheet 3 of 3 Attorney Docket No: 279.684US1				

US-6,426,628	07/30/2002	Palm, William A., et al.	324	427	09/18/2000
US-6,472,847	10/29/2002	Lundberg, Marcus	320	132	10/16/2001
 US-6,490,486	12/03/2002	Bradley, Kerry	607	28	11/09/2000
US-6,584,355	06/24/2003	Stessman, Nicholas J.	607	29	04/10/2001
US-6,671,552	12/30/2003	Merritt, D. R., et al.	607	29	10/02/2001
US-6,744,152	06/01/2004	Kroll, M. W.	307	66	02/25/2002
US-6,760,625	07/06/2004	Kroll, M. W.	607	29	11/21/2001

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T²
	EP-0642369B1	08/19/1998	Anderson, K. M., et al.	A61N	1/39	
	EP-0739645A2	10/30/1996	Koopman, Jan			
	EP-0770411A2	05/02/1997	Causey, J. D.	A61N	1/39	
	WO-94/02202A1	02/03/1994	Adams, T. P.	A61N	1/378	
	WO-02/089904A2	11/14/2002	Farley, M. A., et al.	A61N		
	WO-02/19448A1	03/07/2002	Ghantous, D. I., et al.	H01 M	4/34	
	WO-2004/062009A2	07/22/2004	O'Phelan, M. J., et al.	H01 M	6/40	

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		"WG Wilson Greatbatch Ltd. Reliability Evaluation Report - Model/Part No.	
		CFx", Addendum to RER 96/169: End-of-life (EOL) characteristics for CFx	
		cells,(June 12, 1996),1 page	<u> </u>
		"WG Wilson Greatbatch Ltd. Reliability Evaluation Reports - Model/Part No.:	
		9424", Subject: Model 9424 Li/CFx cell fuel gauge,(Aug. 7, 1998),3 pages	
		JAMES, K. J., et al., "INDICATOR OF REMAINING ENERGY IN STORAGE	
		CELL OF IMPLANTABLE MEDICAL DEVICE", <u>US Patent Application Ser. No.</u>	
		10/618095, filed July 11, 2003 (279.645US1), 25 Pages	
		LINDEN, DAVID, "Handbook of Batteries", pgs 2.1, 2.5-6, 2.25, 14.1 and 14.68	
		LOCH, R., "BATTERY CHARGE INDICATOR SUCH AS FOR AN	
		IMPLANTABLE MEDICAL DEVICE", US Patent Application Ser. No. 10/692315,	
		filed October 23, 2003 (279.474US1), 33 Pages	
		PARSONNET, V., "Cardiac pacing and pacemakers VII. Power sources for	
		implantable pacemakers. Part I.", American Heart Journal, 94 (4), (Oct.	
		1977),pp. 517-528	
		TAKEUCHI, E. S., et al., "Lithium/Silver Vanadium Oxide Batteries for	
		Implantable Defibrillators", PACE, 11, (Nov. 1988),2035-2039	

EXAMINER DATE CONSIDERED